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N Negroponce - Computer-Aided Design, 1975 - Elsevier

... as well as the subject; the latter is a more traditional machine intelligence **approach**. ... It is exemplary of this attitude toward **computer-aided** design in that the machine offers ... a person's lettering mannerisms helps recognize and segregate characters from **projective** geometry, an ...

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### The twisted cubic curve: A **computer-aided** geometric design approach

AR Forrest - Computer-Aided Design, 1980 - Elsevier

... This paper presents a general **approach** to the twisted cubic in its rational parametric form ... curve which may not have been appreciated earlier in the context of **computer-aided** geometric design. ... We need not be concerned here with the theorems of **projective** geometry leading to ...

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O Tolba, J Dorsey, L McMillan - ... of the 12th annual ACM symposium ..., 1999 - portal.acm.org

... ap- proached the problem by creating a new **drawing** paradigm, based on **projective** 2D points ... such as wood models, also need to be seam- lessly integrated with **computer-aided** design. ... The proposed **approach** has the same directness of these methods without the internal 3D ...

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### [CITATION] A **Projective Approach** to Computer-Aided Drawing

O Tolba - 2001 - PhD thesis, Massachusetts Institute ...

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### [CITATION] Curves and Surfaces for CAGD

G Farin - 1993

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### [BOOK] Handbook of **computer aided** geometric design

GE Farin, J Hoschek, MS Kim - 2002 - books.google.com

... Preface CAGD-short for **Computer Aided** Geometric Design-is the discipline concerned with the computational and geometric aspects of free-form ... 2 NURBS curves and surfaces in **projective** geometry 46 3.1. ... 4 The medial axis transform in a sphere geometric **approach** 55 3.2. ...

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### [BOOK] Fundamentals of **computer-aided** geometric design

J Hoschek, D Lasser - 1993 - books.google.com

... **Approach** 425 9.7.2. Hybrid Methods 426 9.7.3. The Bivariate **Approach** 427 9.7. ... and quality control, eg in the sewing machine, textile and shoe industries. • **drawing** marine charts ... foundations of geometric data pro- cessing, usually referred to as **computer aided** geometric design ...

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### [PDF] A two-stage **approach** for interpreting line **drawings** of curved objects

PAC Varley, Y Takahashi, J Mitani, H Suzuki - ... workshop on sketch-based ..., 2004 - Citeseer

... The limitations of our **approach** come from two sources: the limitations of RIBALD, and the ... [TDM99]

O. Tolba, J. Dorsey and L. McMillan, Sket- ching with **Projective** 2D Strokes ... T. Varady and RR Martin, Reverse Engi- neering in: The Handbook of **Computer Aided** Design, eds. ...

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D Bourguignon, MP Carri, G Drettakis - Computer Graphics Forum, 2001 - Citeseer  
... the floor plane. This **approach** can be useful for camera path description for example, but seems potentially unintuitive for **drawing** shapes. Tolba et al. 24 , use **projective** 2D strokes in an architectural context. By projecting 2D ...

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### **Computer-aided** fixture design system for comprehensive modular fixtures

JL Hou, AJC Trappey - International Journal of Production ..., 2001 - informaworld.com  
... to the baseplate; the second datum is usually the facet with the largest **projective** edge (onto to ...  
detection cannot be simpliUed by coordinate trans- formation, analysis is conducted by an  
approximate **approach**. ... **Computer-aided** Uxture design for comprehensive modular Uxtures ...

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O Tolba - 2001 - PhD thesis, Massachusetts Institute ...

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MC Sousa - SIGGRAPH 2003 Course 10: Theory and Practice of ... 2003 - cs.nccu.edu.tw

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Department of Computer Science University of Calgary 2500 University Drive NW Calgary,

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M Möske - 2003 - pi4.informatik.uni-mannheim.de

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 ... INTRODUCTION Despite the progress and sophistication of three-dimensional (3D) modeling in **computer-aided design (CAD)** systems ... In our **approach**, we provide controls for **editing** and (a) (b) (c) Figure 2: The user interface displays vanishing lines and **projective** grids, while ...  
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 ... a person's lettering mannerisms helps recognize and segregate characters from **projective** geometry, an ... 9. Coons, SA 'An outline of the requirements for **computer-aided** design systems ... J. An Image Processing **Approach** to Computer Graphics, Presented at Conference on ...  
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### [CITATION] The Juno-2 constraint-based drawing editor

A Heydon, G Nelson - Technical Report 131a, Digital Systems Research, 1994  
 Cited by 96 - Related articles - All 5 versions

### An expert system approach to art psychotherapy

S Kim, HJ Ryu, JO Hwang, MSH Kim - The Arts in Psychotherapy, 2006 - Elsevier  
 ... Numerous studies have warned against using only **projective** methods to identify abused, neglected, or indifferently treated ... A solution: expert system **approach**. ... The frame of the expert system discussed below demonstrates how **computer-aided** technology can enhance the ...  
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R Schmidt, A Khan, K Singh, G ... - ACM Transactions on ..., 2009 - portal.acm.org  
 ... Optimization-based reconstruction of a 3D object from a single freehand line **drawing**. **Computer-Aided Design** 28, 651--663. ... 41. Tolba, O., Dorsey, J., and McMillan, L. 2001. A **projective drawing** system. ... A two-stage **approach** for interpreting line **drawings** of curved objects. ...  
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M Mmik, F Winkler - risc.uni-linz.ac.at  
 Page 1. CASA - A System for **Computer Aided** Constructive Algebraic Geometry Michal Mmik\* and Franz Winkler\*\* Research Institute for ... This **approach** was chosen in order to keep the on-line help consistent with printed manual ... The curve C<sub>l</sub> from Section 3.7 is a **projective** curve ...  
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### An idiosyncratic systems approach to interactive graphics

N Negroponte - Proceedings of the ACM/SIGGRAPH workshop on ..., 1976 - portal.acm.org  
 ... or input for- mat is a necessary criterion for an idio- syncratic **approach**, it is ... for example, you view **computer-aided** design as in the domain of **computer aided** instruction, particularly ... Whether we are dealing with diagrams or **projective** geome- try, abstractions or photographs, we ...  
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Computer graphics: A keyword-indexed bibliography for the years 1976, 1977, and 1978\*

GF Schrack - Computer Graphics and Image Processing, 1980 - Elsevier

... B. Barnes, An automatic theoretic **approach** to interactive computer graphics command language. ...

In: JR Rice, Editor, Mathematical Software III, Academic Press, Englewood Cliffs, NJ (1977 ... E.

Barnhill, JH Brown and IM Kluczewicz, A new twist in **computer aided** geometric design ...

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The emerging technology of CAD/CAM

L Lichten - Proceedings of the 1984 annual conference of the ..., 1984 - portal.acm.org

... if any direct information for automated process planning and manufacturing, and possible deviations from **projective** geometry in ... technologies, solid modeling will overcome the inertia of tradition and displace **computer-aided** drafting as the predominant modeling **approach**. ...

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Interactive inspection of solids: cross-sections and interferences

J Rossignac, A Megahed, BO ... - ACM SIGGRAPH Computer ..., 1992 - portal.acm.org

... developed an adaptive subdivision search based on a **projective approach** which guarantees ...

CR Categories and Subject Descriptions: 1.3.3 [Computer Graphics]: Picture/Image Generation ...

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 in **computer-aided design** (CAD ... of this art, such as the use of vanishing points and **projective**  
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MJ Clarkson, D Rueckert, DLG Hill, DJ Hawkes · IEEE Transactions on Pattern ... 2001

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MD Gross, EYL Do, BR Johnson · Association of Collegiate Schools of ... 2000 - Citeseer  
 ... (1998). Path **Drawing for 3D** Walkthrough. UIST 98. ... T. Seeböhm and SV Wyk. Quebec City, Canada.,  
 ACADIA: Association for **Computer-Aided Design** in Architecture: 202-211. Tolba, O., J. Dorsey,  
 et al. (1999). Sketching with **Projective 2D Strokes**. UIST '99, Asheville, ACM. ...

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J Dorsey, S Xu, G Smedresman, H Rushmeier, L ... · Computer Graphics and ... 2007

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F Han, SC Zhu · ... on High Level Knowledge in 3D Modeling and Motion, 2003 - Citeseer  
 ... the prior **model** under the constraint that it reproduces the observed image/sketch under **projective**  
 geometry. ... As it is well stated in the **photo-hull** theory [16], these methods seek con ... It assumes  
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**Computer-Aided Design** 28, 651-663. ... 32. Reith, E., and Liu, CH 1995. What hinders accurate  
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HU Shu-long · Journal of Daqing Petroleum Institute, 2003 - [en.cnki.com.cn](#)  
 ... @optical treatment which includes luminance and color calibration on the cylindrical **3D** **projective**  
 view to ... Hangzhou 310027);RESEARCH ON **3D** RECONSTRUCTION OF OBJECTS FROM  
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I Sobel - Artificial Intelligence, 1974 - Elsevier

... 23. D. Perkins , Stereo perception on line **drawing** pairs. In: Ph.D. Thesis, Mass. ... 33. CE Springer , Geometry and Analysis of **Projective** Spaces. , Freeman, San Francisco, Calif. ... 34. GC Temes and DA Calahan , **Computer aided** network optimization—the state of the art. In: Proc. ...

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### New dimension for sketches

R Zenka, P Slavik - Proceedings of the 19th spring conference on ..., 2003 - portal.acm.org

... Figure 10 shows the refined picture compared to the outline of a skeleton made entirely of blobs. It is obvious that blobs ... Assessing the effect of non-photorealistic rendered images in **computer-aided** design. ... A **projective drawing** system. ...


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A Sheeh, B Chen - Computer Graphics Forum, 2008 - Citeseer

... and Subject Descriptors (according to ACM CCS): I.3.3 [Computer Graphics]: Picture/Image Generation ... be subject to an arbitrary sequence of rigid, deforming and **projective** transformations, simplifying ... simplified in a line **drawing** to maintain tone and overall shape and possibly ...

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AWM Smeulders, M Worring, S Santini, A Gupta ... - IEEE Transactions on ... 2000 - Citeseer

... The same holds for of a picture of the Kalahari Desert, a dividing cell, or ... Try to imagine an editor taking in pictures without seeing them or a radiologist ... workshop considered mainly Grand Challenge problems, such as weather forecasting, biological **modeling**, medical images ...

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Y Liu, WC Lin, J Hays - ACM SIGGRAPH 2004 Papers, 2004 - portal.acm.org

... 10: Three complete vertical tiles, each tile is three-floors high, are identified in an outdoor **photo**. ... This generative **model** allows us to produce many new tiles that are not in the ... a statistical texture synthesis method, used to create individual tiles, with our **image based** near-regular ...

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H Rushmeier, J Gomes, L Balmeili, F Bernardini ... - ... Imaging and Modeling ..., 2003 - Citeseer

... 215–223. [5] BM Oh, M. Chen, J. Dorsey, and F. Durand, "**Image-based modeling and photo editing**," in SIGGRAPH 2001, pp. 433– 442. [6] SM Seitz and KN Kutulakos, "Plenoptic image **editing**," in 6th IEEE Intl. Conf. on Comp. Vision, 1998, pp. 17–24. ...

Cited by 8 - [Related articles](#) - [View as HTML](#) - [All 8 versions](#)**Active appearance models**

TF Cootes, GJ Edwards, CJ Taylor - Computer Vision—ECCV'98, 1998 - Springer

... Although **model**-based methods have proved successful, few of the existing methods use full, **photo**-realistic models which are matched directly by minimis- ing the difference between the image under interpretation and one synthesised by the **model**. ...

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T Weyrich, W Matusik, H Pfister, B Bickel, C ... - ACM Transactions on ..., 2006 - portal.acm.org

... In contrast to **image-based** methods, we measure a full BRDF at each surface point using a face-scanning dome similar to the LightStage by Debevec et al. ... No normal map was used; the surface detail is due to the actual geometry of the **model**. Right: Comparison **photo**. ...

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WA Barrett, AS Cheney - ACM Transactions on Graphics, 2002 - Citeseer

... defined graphical objects (circles, rectangles, etc.) created in a drawing or **modeling** application. ... **Image-based editing** methods (such as warping with thin-plate splines and with radial basis functions ... Figure 1 Animation of a static, digital **photo**: Mrs. Potato [Hasbro 2001] Takes a ...



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### A gentle introduction to bilateral filtering and its applications

S Paris, P Kornprobst, J Tumblin, F ... - ACM SIGGRAPH 2007 ..., 2007 - portal.acm.org

... Arif Khan, Erik Reinhard, Roland W. Fleming, Heinrich H. Bülthoff, **Image-based material editing** ... bilateral filter, Proceedings of the ninth ACM symposium on Solid **modeling** and applications ... 75.

Leonid P. Yaroslavsky, Digital Picture Processing, Springer-Verlag New York, Inc ...

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### Graph cuts and efficient nd image segmentation

Y Boykov, G Funka-Lea - International Journal of Computer Vision, 2006 - Springer

... learning, multi-scale or hierarchical approaches, narrow bands, and other techniques for demanding **photo**, video, and ... (2004) suggested to use a Gaussian Mixture (GM) **model** to approximate ... Our algorithm also allows very efficient **editing** of segmentation results, if nec- essary. ...


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### Fast bilateral filtering for the display of high-dynamic-range images

F Durand, J Dorsey - Proceedings of the 29th annual conference on ..., 2002 - portal.acm.org

... Unfortunately, exposure only operates via global contrast management – that is, it recenters the intensity window on the most relevant range. If the range of in- tensity is too large, the **photo** will contain under- and over-exposed areas (Fig. 1, rightmost part). ...

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